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1 Hypergraph based reorderings of outer join queries with complex predicates
Gautam Bhargava, Piyush Goel, Bala Iyer
May 1995, ACM STOMOD Record, Proceedings of the 1995 ACM STOMOD inte

May 1995 ACM SIGMOD Record, Proceedings of the 1995 ACM SIGMOD international conference on Management of data, Volume 24 Issue 2

Full text available: pdf(1.06 MB)

Additional Information: <u>full citation</u>, <u>abstract</u>, <u>references</u>, <u>citings</u>, <u>index</u> terms

Complex queries containing outer joins are, for the most part, executed by commercial DBMS products in an "as written" manner. Only a very few reorderings of the operations are considered and the benefits of considering comprehensive reordering schemes are not exploited. This is largely due to the fact there are no readily usable results for reordering such operations for relations with

joins, outer joins, and groupby aggregations. Consequently, some of the reorderings with significantly lower cost may be missed. Using hypergraph model and a set of novel identities, we propose a method to reorder a SQL query conta ... 4 Conflict resolution of rules assigning values to virtual attributes Yannis E. Ioannidis, Timos K. Sellis June 1989 ACM SIGMOD Record, Proceedings of the 1989 ACM SIGMOD international conference on Management of data, Volume 18 Issue 2 Additional Information: full citation, abstract, references, citings, index Full text available: pdf(1.30 MB) terms In the majority of research work done on logic programming and deductive databases, it is assumed that the set of rules defined by the user is consistent, i.e., that no contradictory facts can be inferred by the rules. In this paper, we address the problem of resolving conflicts of rules that assign values to virtual attributes. We devise a general framework for the study of the problem, and we propose an approach that subsumes all previously suggested solutions. Moreover, ... 5 Visual software development using an object-relationship model Kenneth Messa, Bogdan Czejdo April 1999 Proceedings of the 37th annual Southeast regional conference (CD-ROM) Full text available: pdf(151.66 KB) Additional Information: full citation, index terms 6 Metadata management in federated multimedia systems Mark Roantree January 2002 Australian Computer Science Communications, Proceedings of the thirteenth Australasian conference on Database technologies - Volume 5, Volume 24 Issue 2 Additional Information: full citation, abstract, references, citings, index Full text available: pdf(1.00 MB) terms A Federated Information System requires that multiple (often heterogenous) information systems are integrated to the extent that they can share data through views. One issue faced during the construction of federated view schemata is the continuous need to extract metadata from cooperating systems. This is more pressing in the case of federated multimedia systems where needless transfer of large binary objects affects system performance. Where participating systems employ an object-oriented comm ... Keywords: ODMG, federated databases, interoperability, metadata, object-oriented databases 7 View generation based on equivalence framework in object-oriented multidatabase systems Kan-Sheng Shi, Hong-Jun Lu

Keywords: conflict resolution, multidatabase, object-oriented view, schema integration, visualization

April 1994 Proceedings of the 1994 ACM symposium on Applied computing
Full text available: pdf(501.08 KB) Additional Information: full citation, references, index terms

	A framework for supporting data integration using the materialized and virtual	
	<u>approaches</u>	
	Richard Hull, Gang Zhou June 1996 ACM SIGMOD Record, Proceedings of the 1996 ACM SIGMOD international conference on Management of data, Volume 25 Issue 2	
	Additional Information: full citation, abstract, references, citings, index	
	terms	
	This paper presents a framework for data integration currently under development in the Squirrel project. The framework is based on a special class of mediators, called <i>Squirrel integration mediators</i> . These mediators can support the traditional virtual and materialized approaches, and also hybrids of them.In the Squirrel mediators, a relation in the integrated view can be supported as (a) fully materialized, (b) fully virtual, or (c) partially materialized (i.e., with some attributes mate	
9	Objects and views	
	Serge Abiteboul, Anthony Bonner	
	April 1991 ACM SIGMOD Record , Proceedings of the 1991 ACM SIGMOD international	
	conference on Management of data, Volume 20 Issue 2 Full text available: pdf(1.15 MB) Additional Information: full citation, references, citings, index terms	
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10	Indexing medical reports in a multimedia environment: the RIME experimental	
	approach	
	C. Berrut, Y. Chiaramella	
	May 1989 ACM SIGIR Forum, Proceedings of the 12th annual international ACM SIGIR conference on Research and development in information retrieval, Volume 23 Issue 1-2	
	Full text available: pdf(1.57 MB) Additional Information: full citation, abstract, references, citings, index terms	
	This paper focuses on the RIME system aimed to the indexing of medical reports in a multimedia environment. This particular application is viewed as representative of a large set of still unanswered needs of large communities of users: domain experts dealing with on-line specialized documentation such as software engineers, medical specialists and so on. In this application textual information appears as an interesting media to access related pictures in the data base. After the pre	
11	Multidatabase systems: Classifying approaches to semantic heterogeneity in	
	<u>multidatabase systems</u> Jianchun Zhang	
	November 1992 Proceedings of the 1992 conference of the Centre for Advanced Studies on Collaborative research - Volume 2	
	Full text available: pdf(1.18 MB) Additional Information: full citation, abstract, references	
	A multidatabase system (MDBS) is a collection of preexisting database systems that are autonomous and possibly heterogeneous. The MDBS has developed because of a need to manage and retrieve data from multiple databases within a single application. In this paper, a classification of multidatabases, their corresponding architectures, and their methods for dealing with heterogeneity are proposed. Through the detailed examples, we argue that the methodologies used multidatabase systems to solve sche	
12	A globalizing transformation for attribute grammars	
	K. J. Räihä, Jorma Tarhio	
	July 1986 ACM SIGPLAN Notices, Proceedings of the 1986 SIGPLAN symposium on Compiler contruction, Volume 21 Issue 7	

	Full text available: pdf(1.01 MB) Additional Information: full citation, abstract, references, index terms	
	A transformation is presented for replacing conventional local attribute references in attribute grammars by upward remote references. The purpose of the transformation is to enhance readability of the grammar and to facilitate easy storage optimization.	
13	An object-oriented approach to database system implementation A. James Baroody, David J. DeWitt December 1981 ACM Transactions on Database Systems (TODS), Volume 6 Issue 4	
	Full text available: pdf(1.93 MB) Additional Information: full citation, abstract, references, citings, index terms	
	This paper examines object-oriented programming as an implementation technique for database systems. The object-oriented approach encapsulates the representations of database entities and relationships with the procedures that manipulate them. To achieve this, we first define abstractions of the modeling constructs of the data model that describe their common properties and behavior. Then we represent the entity types and relationship types in the conceptual schema and the internal schema b	
	Keywords : data independence, data manipulation routines, database systems, high-level languages, object-oriented programming, procedural binding	
14	Virtual classes: a powerful mechanism in object-oriented programming	
	O. L. Madsen, B. Moller-Pedersen September 1989 ACM SIGPLAN Notices, Conference proceedings on Object-oriented programming systems, languages and applications, Volume 24 Issue 10 Full text available: pdf(1.01 MB) Additional Information: full citation, abstract, references, citings, index terms	
	The notions of class, subclass and virtual procedure are fairly well understood and recognized as some of the key concepts in object-oriented programming. The possibility of modifying a virtual procedure in a subclass is a powerful technique for specializing the general properties of the superclass. In most object-oriented languages, the attributes of an object may be references to objects and (virtual) procedures. In Simula and BETA it is also possible to have class attributes	
15	Interoperability of multiple autonomous databases	
	Witold Litwin, Leo Mark, Nick Roussopoulos September 1990 ACM Computing Surveys (CSUR), Volume 22 Issue 3	
	Full text available: pdf(2.66 MB) Additional Information: full citation, abstract, references, citings, index terms, review	
	Database systems were a solution to the problem of shared access to heterogeneous files created by multiple autonomous applications in a centralized environment. To make data usage easier, the files were replaced by a globally integrated database. To a large extent, the idea was successful, and many databases are now accessible through local and longhaul networks. Unavoidably, users now need shared access to multiple autonomous databases. The question is what the corresponding methodology	
16	Extensibility in Simula 67	
	Jean D. Ichbiah September 1971 ACM SIGPLAN Notices, Proceedings of the international symposium on Extensible languages, Volume 6 Issue 12 Full text available: pdf(112.47 KB) Additional Information: full citation, abstract, references, index terms	
	Simula 67 is a general purpose language developed at the Norwegian Computing Center. It	

evolved from an earlier simultation language called Simula 1 [1] Dahl and Nygaard however, realized that the problems that had to be solved for the implementation of a simulation language, namely the handling of complex data structures and of quasi-parallelism, were general problems. The language Simula 67 [2,3] was therefore defined as a general purpose language with a mechanism for extension ...

17 EXACT: an extensible approach to active object-oriented databases	
Oscar Díaz, Arturo Jaime November 1997 The VLDB Journal — The International Journal on Ve	ry Large Data
Bases, Volume 6 Issue 4	
Full text available: pdf(149.60 KB) Additional Information: full citation, abstract, index	<u>r terms</u>
Active database management systems (DBMSs) are a fast-growing area due to the large number of applications which can benefit from this acti applications are far from being homogeneous, requiring different kinds (However, most of the active DBMSs described in the literature only provided execution model to support the active dimension. In object-orient condition-action rules have been proposed for	ve dimension. These of functionalities. Vide a fixed, hard-
Keywords: Active DBMS, Extensibility, Metaclasses, Object-Oriented D	BMS
¹⁸ A structured approach for the definition of the semantics of active da Piero Fraternali, Letizia Tanca	
December 1995 ACM Transactions on Database Systems (TODS), Volume	ne 20 Issue 4
Full text available: pdf(4.15 MB) Additional Information: full citation, abstract, reference terms, review	ences, citings, index
Active DBMSs couple database technology with rule-based programming capability of reaction to database (and possibly external) stimuli, called capabilities of active databases are useful for a wide spectrum of applications, view materialization, integrity checking and enforcement, or he database integration, which makes this technology very promising for the active database system consists of	events. The reactive ations, including eterogeneous
Keywords : active database systems, database rule processing, events, rules, semantics	fixpoint semantics,
19 On the role of language constructs for framework design	
Görel Hedin, Jørgen Lindskov Knudsen March 2000 ACM Computing Surveys (CSUR)	
Full text available: pdf(37.97 KB) Additional Information: full citation, references, inc	<u>lex terms</u>
20 Expressing and optimizing sequence queries in database systems	Г
Reza Sadri, Carlo Zaniolo, Amir Zarkesh, Jafar Adibi June 2004 ACM Transactions on Database Systems (TODS) , Volume 29	Issue 2
Full text available: pdf(427.23 KB) Additional Information: full citation, abstract, reference	ences, index terms
The need to search for complex and recurring patterns in database sequences applications. In this paper, we investigate the design and optimized language capable of expressing and supporting efficiently the search for patterns in database systems. Thus, we first introduce SQL-TS, an extern express these patterns, and then we study how to optimize the queries	ation of a query complex sequential nsion of SQL to

We take the optimal text search algorithm of Knuth, Morr ...

Keywords: Time series, query optimization, searching, sequences

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1 Hypergraph based reorderings of outer join queries with complex predicates
Gautam Bhargava, Piyush Goel, Bala Iyer

May 1995 ACM SIGMOD Record, Proceedings of the 1995 ACM SIGMOD international conference on Management of data, Volume 24 Issue 2

Full text available: pdf(1.06 MB)

Additional Information: full citation, abstract, references, citings, index terms

Complex queries containing outer joins are, for the most part, executed by commercial DBMS products in an "as written" manner. Only a very few reorderings of the operations are considered and the benefits of considering comprehensive reordering schemes are not exploited. This is largely due to the fact there are no readily usable results for reordering such operations for relations with *duplicates* and/or outer join predicates that are other than "simple." Most previous approaches h ...

² No regression algorithm for the enumeration of projections in SQL queries with joins and outer joins



Gautam Bhargava, Piyush Goel, Balakrishna R. Iyer

November 1995 Proceedings of the 1995 conference of the Centre for Advanced Studies on Collaborative research

Full text available: pdf(314.80 KB) Additional Information: full citation, abstract, references, citings, index terms

The execution time of an SQL query can be reduced significantly by considering different schedules for the operations specified in the query. The benefits of considering different schedules, a hallmark of strength in query optimization, are not usually exploited if a query contains projections along with binary operations. This paper presents a set of "no regression" algorithms that are capable of generating different schedules for the queries containing projections and binary operations.

³ <u>SQL query optimization: reordering for a general class of queries</u> Piyush Goel, Bala Iyer



Full text available: pdf(943.71 KB) Additional Information: full citation, abstract, references, citings, index terms

The strength of commercial query optimizers like DB2 comes from their ability to select an optimal order by generating all equivalent reorderings of binary operators. However, there are no known methods to generate all equivalent reorderings for a SQL query containing joins, outer joins, and groupby aggregations. Consequently, some of the reorderings with significantly lower cost may be missed. Using hypergraph model and a set of novel identities, we propose a method to reorder a SQL query conta ...



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• Enclose a <u>phrase</u> in double quotes to search for that exact phrase.

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museum +art

• Exclude pages by using a - if a search term <u>must not appear</u> on a page.

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Combine these techniques to create a specific search query. The better your description of the information you want, the more relevant your results will be.

museum +"natural history" dinosaur -Chicago

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1 Research directions in object-oriented database systems

Won Kim

April 1990 Proceedings of the ninth ACM SIGACT-SIGMOD-SIGART symposium on **Principles of database systems**

Full text available: pdf(2.02 MB)

Additional Information: full citation, abstract, references, citings, index terms

The set of object-oriented concepts found in object-oriented programming languages forms a good basis for a data model for post-relational database systems which will extend the domain of database applications beyond conventional business data processing. However, despite the high level of research and development activities during the past several years, there is no standard object-oriented data model, and criticisms and concerns about the field still remain. In this paper, I will first pr ...

2 An NF2 relational interface for document retrieval, restructuring and aggregation Kalervo Järvelin, Timo Niemi



July 1995 Proceedings of the 18th annual international ACM SIGIR conference on Research and development in information retrieval

Full text available: pdf(985.40 KB) Additional Information: full citation, references, index terms

3 Hierarchical materialisation of methods in object-oriented views: design, maintenance,



and experimental evaluation

Bartosz Bębel, Robert Wrembel

November 2001 Proceedings of the 4th ACM international workshop on Data warehousing and OLAP

Full text available: pdf(3.02 MB)

Additional Information: full citation, abstract, references, index terms

The application of materialised object-oriented views in object-relational data warehousing systems is promising. In this paper we propose a novel technique for the materialisation of method results in object-oriented views, called hierarchical materialisation. When an object used to materialise the result of method m is updated, then m has to be recomputed. This recomputation can use unaffected intermediate materialised results of methods called from m, thus reducing ...

Keywords: method materialisation, object-oriented view, object-relational data warehouse, view materialisation

4	Index nesting – an efficient approach to indexing in object-oriented databases
	Beng Chin Ooi, Jiawei Han, Hongjun Lu, Kian Lee Tan
	August 1996 The VLDB Journal — The International Journal on Very Large Data Bases
	Volume 5 Issue 3

Full text available: pdf(455.77 KB) Additional Information: full citation, abstract, index terms

In object-oriented database systems where the concept of the superclass-subclass is supported, an instance of a subclass is also an instance of its superclass. Consequently, the access scope of a query against a class in general includes the access scope of all its subclasses, unless specified otherwise. An index to support superclass-subclass relationship efficiently must provide efficient associative retrievals of objects from a single class or from several classes in a class hierarchy. This p ...

Keywords: Indexing structures, OODB, Query retrieval

⁵ H-trees: a dynamic associative search index for OODB

Chee Chin Low, Beng Chin Ooi, Hongjun Lu

June 1992 ACM SIGMOD Record, Proceedings of the 1992 ACM SIGMOD international conference on Management of data, Volume 21 Issue 2

Full text available: pdf(1.06 MB)

Additional Information: <u>full citation</u>, <u>abstract</u>, <u>references</u>, <u>citings</u>, <u>index</u> terms

The support of the superclass-subclass concept in object-oriented databases (OODB) makes an instance of a subclass also an instance of its superclass. As a result, the access scope of a query against a class in general includes the access scope of all its subclasses, unless specified otherwise. To support the superclass-subclass relationship efficiently, the index must achieve two objectives. First, the index must support efficient retrieval of instances from a single class. Second, it must ...

6 Information structures for processing and retrieving

Robert A. Colilla, Burnett H. Sams

January 1962 Communications of the ACM, Volume 5 Issue 1

Full text available: pdf(770.16 KB) Additional Information: full citation, references, citings

7 A configurable type hierarchy index for OODB

Thomas A. Mueck, Martin L. Polaschek

November 1997 The VLDB Journal — The International Journal on Very Large Data Bases, Volume 6 Issue 4

Full text available: pdf(411.47 KB) Additional Information: full citation, abstract, citings, index terms

With respect to the specific requirements of advanced OODB applications, index data structures for type hierarchies in OODBMS have to provide efficient support for multiattribute queries and have to allow index optimization for a particular query profile. We describe the *multikey type index* and an efficient implementation of this indexing scheme. It meets both requirements: in addition to its multiattribute query capabilities it is designed as a mediator between two standard design altern ...

Keywords: Access methods, Indexing, Multiple inheritance, OODB, Type hierarchies

8 OODB indexing by class-division

Sridhar Ramaswamy, Paris C. Kanellakis

May 1995 ACM SIGMOD Record, Proceedings of the 1995 ACM SIGMOD international

conference on Management of data, Volume 24 Issue 2

Full text available: pdf(1.27 MB)

Additional Information: full citation, abstract, references, citings, index terms

Indexing a class hierarchy, in order to efficiently search or update the objects of a class according to a (range of) value(s) of an attribute, impacts OODB performance heavily. For this indexing problem, most systems use the class hierarchy index (CH) technique of [15] implemented using B+-trees. Other techniques, such as those of [14, 18,31], can lead to improved average-case performance but involve the implementation of new data-structures. As a special form of external dynamic two ...

Types and persistence in database programming languages

Malcolm P. Atkinson, O. Peter Buneman

June 1987 ACM Computing Surveys (CSUR), Volume 19 Issue 2

Full text available: pdf(7.91 MB)

Additional Information: full citation, abstract, references, citings, index terms, review

Traditionally, the interface between a programming language and a database has either been through a set of relatively low-level subroutine calls, or it has required some form of embedding of one language in another. Recently, the necessity of integrating database and programming language techniques has received some long-overdue recognition. In response, a number of attempts have been made to construct programming languages with completely integrated database management systems. These lang ...

10 Data organization and retrieval on parallel air channels: performance and energy issues

J. Juran, A. R. Hurson, N. Vijaykrishnan, Soontae Kim March 2004 Wireless Networks, Volume 10 Issue 2

Full text available: pdf(238.18 KB) Additional Information: full citation, abstract, references, index terms

Our interest in the global information sharing process is motivated by the advances in communication and computation technologies, the marriage between the two technologies, and the almost limitless amount of information available on the network. Within the scope of the global information sharing process, when a user's request (potentially mobile) is directed to public data, broadcasting has been suggested as an effective mechanism to access data. The effectiveness of the schemes to retrieve pub ...

Keywords: access latency, energy awareness, global information system, indexing, mobile devices, scheduling, wireless communication

11 Path caching (extended abstract): a technique for optimal external searching

Sridhar Ramaswamy, Sairam Subramanian

May 1994 Proceedings of the thirteenth ACM SIGACT-SIGMOD-SIGART symposium on **Principles of database systems**

Full text available: pdf(1.16 MB)

Additional Information: full citation, abstract, references, citings, index terms

External 2-dimensional searching is a fundamental problem with many applications in relational, object-oriented, spatial, and temporal databases. For example, interval intersection can be reduced to 2-sided, 2-dimensional searching and indexing class hierarchies of objects to 3-sided, 2-dimensional searching. Path caching is a new technique that can be used to transform a number of time/space efficient data structures for internal 2-dimensional searching (such as segment tr ...

12 Completeness and predicate-based abstract interpretation

Alan Mycroft

August 1993 Proceedings of the 1993 ACM SIGPLAN symposium on Partial evaluation and semantics-based program manipulation Additional Information: full citation, abstract, references, citings, index Full text available: pdf(800.09 KB) terms Traditionally, the theory of abstract interpretation has concentrated on the study of when one interpretation is sound (also safe or correct) with respect to another. We consider the dual notion of when one interpretation is complete with respect to another. Under the usual formulation of abstract interpretation, undecidability in general implies that a finitely computable sound abstraction of the standard interpretation is ... 13 Modelling software process change for cooperative work Y. Sun April 1994 Proceedings of the 1994 ACM symposium on Applied computing Full text available: pdf(531.56 KB) Additional Information: full citation, references, index terms **Keywords**: Petri net, change, cooperation, object-oriented method 14 Towards comprehensive database support for geoscientific raster data Norbert Widmann, Peter Baumann November 1997 Proceedings of the fifth ACM international workshop on Advances in geographic information systems Full text available: pdf(602.08 KB) Additional Information: full citation, references, index terms 15 Method precomputation in object-oriented databases Elisa Bertino October 1991 ACM SIGOIS Bulletin, Conference proceedings on Organizational computing systems, Volume 12 Issue 2-3 Full text available: pdf(982.38 KB) Additional Information: full citation, references, citings, index terms 16 DRAGOON: a tool for the Ada programmer Stephen J. Goldsack, Colin Atkinson December 1991 Proceedings of the conference on TRI-Ada '91: today's accomplishments; tomorrow's expectations Additional Information: full citation, references, citings, index terms Full text available: pdf(1.17 MB) 17 Design of reusable IR framework Gabriele Sonnenberger, Hans-Peter Frei July 1995 Proceedings of the 18th annual international ACM SIGIR conference on

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